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TITLE : DEASHING OF COAL

ABSTRACT : PURPOSE: To deash coal at high efficiency without the use of a sieve, by mixing slack coal, water, surfactant, inorganic salt and hydrocarbon oil under agitation and adding a specified ash treating agent.

CONSTITUTION: 100pts.wt. coal in fine powder with an average particle diameter of 50 μ or smaller, 500~1,000pts.wt. water, a surfactant (e.g. polyoxyethylene alkyl ether sodium sulfate) in an amount of 50~4,000ppm of coal, an inorganic salt (e.g. sodium tripolyphosphate) in an amount of 50~5,000ppm of coal and 1~10pts.wt. hydrocarbon oil are mixed under agitation. Next an inorganic phase containing a chloride or oxide of an alkaline earth metal [e.g. CaCl_2 or $\text{Mg}(\text{OH})_2$] in an amount of 0.1~5wt% of coal, a water phase and a precipitated ash phase are formed, among which the organic phase is separated for recovery to obtain coal deashed at a high ratio of ash removal.

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